

## Answer Key

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### Lesson 7.4

#### Practice Level B

1.  $6\sqrt{2}$  2. 18 3. 9 4.  $12\sqrt{2}$  5.  $4\sqrt{2}$  6. 5

7.  $x = 10\sqrt{3}, y = 15$  8.  $x = 4, y = 4\sqrt{3}$

9.  $x = 6\sqrt{3}, y = 12\sqrt{3}$  10.  $x = 8\sqrt{3}, y = 8$

11.  $x = 22, y = 11\sqrt{3}$  12.  $x = 13, y = 26$

13.

<b>x</b>	5	4	$\sqrt{2}$	9	$12\sqrt{2}$
<b>y</b>	$5\sqrt{2}$	$4\sqrt{2}$	2	$9\sqrt{2}$	24

14.

<b>a</b>	9	$3\sqrt{3}$	5	11	8
<b>b</b>	$9\sqrt{3}$	9	$5\sqrt{3}$	$11\sqrt{3}$	$8\sqrt{3}$
<b>c</b>	18	$6\sqrt{3}$	10	22	16

15.  $r = 10\sqrt{2}, s = 10$  16.  $n = 30, p = 15,$   
 $q = 15\sqrt{3}$  17.  $x = 45, y = 12\sqrt{2}$

18.  $a = 4\sqrt{3}, b = 2\sqrt{3}$  19.  $c = 12\sqrt{2}, d = 24$

20.  $f = 8\sqrt{3}, g = 8, h = 8\sqrt{2}$  21.  $30^\circ$ - $60^\circ$ - $90^\circ$

22. neither 23.  $45^\circ$ - $45^\circ$ - $90^\circ$

24. a.  $x = y = 12\sqrt{2}$  ft b.  $1188 \text{ ft}^2$

25. a.  $a \approx 97 \text{ cm}, b = d \approx 112 \text{ cm},$   
 $c \approx 158 \text{ cm}$  b.  $a = 56 \text{ cm}, b = d \approx 79 \text{ cm},$   
 $c = 112 \text{ cm}$